

Product datasheet for **MR207871**

Slc2a1 (NM_011400) Mouse Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Slc2a1 (NM_011400) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Slc2a1 |
| Synonyms: | Glut-1; Glut1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>MR207871 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATCCAGCAGCAAGAAGGTGACGGGCCCGCTCATGTTGGCTGTGGGAGGAGCAGTGCTCGGATCAC
 TGCAGTTCGGCTATAACTGGTGTATCAACGCCCCAGAAAGTTATTGAGGAGTTCTACAATCAAAC
 ATGGAACCACCGCTACGGAGAGCCCATCCCATCCACCACACTCACCACGCTTTGGTCTCTCTCCGTGGCC
 ATCTTCTCTGTCGGGGCATGATTGGTTCCTTCTCTGTCGGCCTCTTTGTTAATCGCTTTGGCAGGCGGA
 ACTCCATGCTGATGATGAACCTGTTGGCCTTTGTGGTGTGTACTGCGGCCTGACTACTGGCTTTGTG
 GTCCTTTGAGATGCTGATCCTGGCCGCTTCATCATCGGTGTGTACTGCGGCCTGACTACTGGCTTTGTG
 CCCATGTATGTGGGAGAGGTGTACCTACAGCTCTACGTGGAGCCCTAGGCACACTGCACCAGCTGGGAA
 TCGTCGTTGGCATCCTTATTGCCAGGTGTTGGCTTAGACTCCATCATGGGCAATGCAGACTTGTGGCC
 TCTGCTGCTCAGTGTATCTTATCCCAGCCCTGCTACAGTGTATCCTGTTGCCCTTCTGCCCGAGAGC
 CCCCCTTCTGCTCATCAATCGTAACGAGGAGAACCGGGCCAAGAGTGTGCTGAAGAAGCTTCAGGGGA
 CAGCCGATGTGACCCGAGACCTGCAGGAGATGAAAGAAGAGGGTGGCAGATGATGCGGGAGAAGAAGGT
 CACCATCTGGAGCTGTTCCGCTCACCCGCTACCGCCAGCCCATCCTCATCGTGTGGTGTGCAGCTG
 TCCCAGCAGCTGTGGGTATCAATGCTGTGTTCTACTACTCAACGAGCATCTTCGAGAAGGCAGGTGTGC
 AGCAGCCTGTGTACGCCACCATCGGCTCCGGTATCGTCAACACGGCCTTCACTGTGGTGTGCTGTTGT
 TGTAGAGCAGCTGGACGACGGACCCTGCACCTATTGGCCTGGCTGGCATGGCAGGCTGTGCTGTGCTC
 ATGACCATCGCCCTGGCCTTGTGGAACGGCTGCCTTGGATGTCTATCTGAGCATCGTGGCCATCTTTG
 GCTTTGTGGCCTCTTTGAAGTAGGCCCTGGTCTTCCATGGTTCATTGTGGCCGAGCTGTTGAGCCA
 GGGGCCCGTCCCTGCTGCTATTGCTGTGGCTGGCTTCTCCAAGTGGACCTCAAACCTCATTGTGGGCATG
 TGCTTCCAGTATGTGGAGCAACTGTGCGGCCCTACGTCTTATCATCTTACGGTGTCTCTGCTGCTCT
 TCTTATCTTACCTACTTCAAAGTCCCTGAGACCAAAGGCCGAACCTTCGATGAGATCGCTTCCGGCTT
 CCGGCAGGGGGTCCAGCCAAAGTGACAAGACACCCGAGGAGCTTCCACCCTCTGGGGCGGACTCC
 CAAGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207871 protein sequence
 Red=Cloning site Green=Tags(s)

MDPSSKKVTGRLMLAVGGAVLGSQFQYNTGVINAPQKVIIEEFYNQTNHRYGEPSTLTLTWSLSVA
 IFSVGGMIGSFSVGLFVNRFGRNRSMLMMNLLAFVAAVLMGFSLKLSFEMILGRFIIIVYVCGLTGTFV
 PMYVGEVSPTALRGALGTLHQLGIVVGIILIAQVGLDSIMGNADLWPLLSVIFIPALLQCILLPFCPES
 PRFLLINRNEENRAKSVLKKLRGTADVTRDLQEMKEEGRQMMREKKVTILELFRSPAYRQPILIAVVLQL
 SQQLSGINAVFYSTSI FEKAGVQPVYATIGSGIVNTAFTVVSFLFVVERAGRRTLHLIGLAGMAGCAVL
 MTIALALLERLPWMSYLSIVAI FGFVAF FEVGPPIPWFIVAELFSQGRPAIIAVAGFSNWTSNFIVGM
 CFQYVEQLCGPYVFIIFTVLLVLFIFTYFKVPETKGRTFDEIASGFRQGGASQSDKTPEELFHPLGADS
 QV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_011400

ORF Size: 1476 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

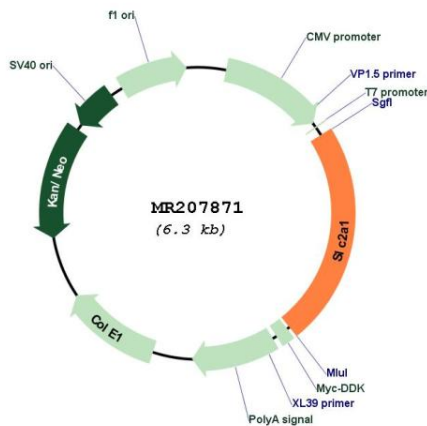
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

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| Note: | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required. |
| RefSeq: | <u>NM_011400.3</u> |
| RefSeq Size: | 2573 bp |
| RefSeq ORF: | 1479 bp |
| Locus ID: | 20525 |
| UniProt ID: | <u>P17809</u> |
| Cytogenetics: | 4 |
| MW: | 54 kDa |
| Gene Summary: | Facilitative glucose transporter, which is responsible for constitutive or basal glucose uptake (PubMed:17320047). Has a very broad substrate specificity; can transport a wide range of aldoses including both pentoses and hexoses (By similarity). Most important energy carrier of the brain: present at the blood-brain barrier and assures the energy-independent, facilitative transport of glucose into the brain (By similarity).[UniProtKB/Swiss-Prot Function] |

Product images:



Circular map for MR207871